

**ANTIBACTERIAL RESIN****Publication number:** JP9302137 (A)**Publication date:** 1997-11-25**Inventor(s):** KAWAKAMI TOSHIHIRO; TEJIMA SEIICHI; ASAKO YOSHINOBU; TSUBOI HIROSHI**Applicant(s):** NIPPON CATALYTIC CHEM IND**Classification:****- international:** A01N25/10; A01N55/02; C08F8/36; C08F8/44; C08K3/10; C08K3/22; C08L101/02; A01N25/10; A01N55/00; C08F8/00; C08K3/00; C08L101/00; (IPC1-7): C08K3/10; A01N25/10; A01N55/02; C08F8/36; C08F8/44; C08K3/22; C08L101/02**- European:****Application number:** JP19960120595 19960515**Priority number(s):** JP19960120595 19960515**Abstract of JP 9302137 (A)**

**PROBLEM TO BE SOLVED:** To obtain an antibacterial resin having excellent antibacterial activity effective for exhibiting antibacterial effect on *Pseudomonas aeruginosa*, MRSA, etc. **SOLUTION:** This antibacterial resin is composed of a polymer having sulfonic acid group and silver ion bonded to the sulfonic acid group. The amount of the sulfonic acid group of the polymer is 3-7.5mmol based on 1g of the polymer. As an alternative, the antibacterial resin is composed of a polymer having sulfonic acid group and silver ion bonded to the sulfonic acid group and contains 2-10mmol of the silver ion based on 1g of the polymer. The polymer is especially preferably a polymer produced by polymerizing a monomer component composed mainly of an aromatic vinyl monomer and sulfonating the produced vinyl polymer. The antibacterial resin especially preferably has a spherical particle form having an average particle diameter of 0.3-500 $\mu$ m.

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